

20001024.ba v03_n018.bam.20001024

>From ???@??? Tue Oct 24 20:57:04 2000 -0500
Date: Tue, 24 Oct 2000 20:54:10 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3018
Message-Id: <20001025015543.72B1D296@devel143.theporch.com>

BOATANCHORS Digest 3018

Topics covered in this issue include:

- 1) Collins mech filter help - numbers
by MODSTEPH@ACS.EKU.EDU
- 2) Re: Collins mech filter help - numbers
by "Jay H. Miller" <jay@kk5im.com>
- 3) Re: Collins mech filter help - numbers
by W7QH0@aol.com
- 4) Re: SX-28 VS. SX-28A (VS. SX-42)
by Bob Roehrig <broehrig@admin.aurora.edu>
- 5) Re: SX-28 VS. SX-28A (VS. SX-42)
by Morris Odell <morriso@vifp.monash.edu.au>
- 6) Old radio identity?
by "Dave prince" <davprin@gil.com.au>
- 7) Re: SX-28 VS. SX-28A (VS. SX-42)
by "A. B. Bonds" <ab@vuse.vanderbilt.edu>
- 8) FS: B&W, Heath, HP, misc.
by brian.k.harris@philips.com
- 9) Bliley 1C: AC/DC
by Roy Morgan <roy.morgan@nist.gov>
- 10) NC240D request
by thompson@mindspring.com
- 11) Anyone parting out an HQ-170 or HQ-180?
by MODSTEPH@ACS.EKU.EDU
- 12) Copper Clad Antenna Wire
by =?iso-8859-1?Q?Andr=E9_Guibert?= <aguibert@sympatico.ca>
- 13) Misc. for Sale or Trade
by Lenox Carruth <carruth@geo-thermal.com>
- 14) JOHNSON MATCHBOX FS
by jackiv@juno.com
- 15) Need C-24/ARC-5 and R-27/ARC-5
by Lenox Carruth <carruth@geo-thermal.com>
- 16) Need HP dial/knob
by n6nae@ix.netcom.com
- 17) Re: NC240D request
by jackiv@juno.com
- 18) Re: Bliley 1C: AC/DC

by Hank van Cleef <vancleef@adic.com>
19) BA Antenna Questions "Master Mobile Hi-Q"
by "Doc" <eDoc@netzero.net>
20) Safety Warning and some personal experiences
by "Barry L. Ornitz" <ornitz@tricon.net>

Date: Mon, 23 Oct 2000 19:59:08 -0400 (EDT)
From: MODSTEPH@ACS.EKU.EDU
Subject: Collins mech filter help - numbers
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <01JVOSRTJGSI008Q49@ACS.EKU.EDU>
MIME-version: 1.0
Content-type: TEXT/PLAIN; CHARSET=US-ASCII

Gang,

Got a very nice 75A-3 on a swap a few weeks ago and am still looking for a second narrow bw mechanical filter. I have learned that there are all sorts of Collins mechanical filters out there... just need one to fit the 75A-3. One set of numbers should be F455 B something-or-other, with last number indicating bandwidth, or so it seems. Problem is running into the Collins parts numbers without any cross-reference from Collins part numbers to the filter that would fit.

So far have figured that Collins part number 526 xxxx xxx is a mechanical filter, and the last three indicating (I think) the filter bandwidth. What I need is the Collins part number for filters that will fit the 75A-3 (looking for narrow - CW - filter). How does a 526-9764-020 pan out? right IF (455) and bw (200 cps) (I think) - but would it fit?

Or if someone has one they want to part with....

TIA,

73, Al N5AIT
modsteph@acs.eku.edu

Mime-Version: 1.0
Message-Id: <p05001900b61a8682facc@[199.34.24.167]>
Date: Mon, 23 Oct 2000 19:31:31 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: "Jay H. Miller" <jay@kk5im.com>
Subject: Re: Collins mech filter help - numbers
Cc: boatanchors@theporch.com

Content-Type: text/plain; charset="us-ascii" ; format="flowed"

Al-

The plug-in mechanical filters for the 75A-3 are:

F-455-B-08	596-2923-002	800 cps
F-455-B-12	522-9019-002	1.2 kc
F-455-B-31	596-2924-002	3.1 kc
F-455-B-60	596-2935-002	6.0 kc

BUT.....

They were also available in a 'C' model (later rigs should have this designation in the factory supplied filter) which were "low-loss" versions. Just substitute the 'C' for the 'B' in the above chart. Electrical characteristics are the same.

200 cps might be a bit narrow. They did make a 200 cps crystal lattice filter for the 75S-3B/C however. It was in a 'Q' style case which is all metal and is about 2" tall. VERY EXPENSIVE and hard to find. It would not fit properly in the 75A-3.

73

--

***** jay@kk5im.com *****
Jay H. Miller, KK5IM Dallas, Texas
The Pocket Guide to Collins Amateur Radio Equipment
A Pictorial History of Collins Amateur Radios
ARRL * AMI#846 * DXCC
NEW Home Page: <http://www.kk5im.com>
***** Proud to be 100% Macintosh since 1984! *****

From: W7QH0@aol.com
Message-ID: <17.caa1448.272663b4@aol.com>
Date: Tue, 24 Oct 2000 00:01:56 EDT
Subject: Re: Collins mech filter help - numbers
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 10/23/00 5:32:50 PM, jay@kk5im.com writes:

>Al-

>

>The plug-in mechanical filters for the 75A-3 are:

>

>F-455-B-08 596-2923-002 800 cps

>F-455-B-12 522-9019-002 1.2 kc

>F-455-B-31 596-2924-002 3.1 kc

>F-455-B-60 596-2935-002 6.0 kc

>

>BUT.....

>

>They were also available in a 'C' model (later rigs should have this

>designation in the factory supplied filter) which were "low-loss"

>versions. Just substitute the 'C' for the 'B' in the above chart.

>Electrical characteristics are the same.

>

All,

I have to add another "But" here. The manual for my 75A3 gives the same information Jay reported. However, later "C" style cases are somewhat larger and have much different pin spacing than the F455C-31 as found in my receiver. In addition, the later C cased units seem to have been used only with 250 and 300 kHz filters.

>From the information I have it would appear that the "C" series filters as used in the 75A3 were replaced, in turn, by the "E" series which have the same pin dimensions and locations and were available in 0.5, 1.5, 2.1, 3.1, 4, 6, 8, 12, 15, 16 and 35 kHz bandwidths. It would appear that any one of these would plug directly into the 75A3.

Filters with the "F" style case covering the same range of bandwidths can also be used with a slight (nondestructive) modification to the A3 mounting plate and by clipping the flat solder lugs off the end of the input and output pins. I use an F455F-05 (0.5 kHz) filter in my receiver along side the original F455C-31 mentioned above.

F455E-05 526-9321-00 (500 cps)

F455E-21 526-9322-00 (2.1 kHz., etc)

F455E-31 526-9074-00

F455E-40 526-9324-00

F455E-60 526-9084-00

F455F-05 526-9318-00

F455F-08 526-9085-00 (F only)

F455F-085 526-9610-00 (F only)

F455F-21 526-9323-00

F455F-31 526-9075-00

F455F-40 526-9325-00

F455F-60 526-9087-00

My information comes from a couple of late 1960s Collins publications. Later filters may plug directly into the A3 as well. Hope this information is useful.

Dennis D. W7QH0
Glendale, CA

Date: Mon, 23 Oct 2000 12:44:19 -0500 (CDT)
From: Bob Roehrig <broehrig@admin.aurora.edu>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: SX-28 VS. SX-28A (VS. SX-42)
Message-ID: <Pine.OSF.3.96.1001023124112.31709A-100000@admin.aurora.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 22 Oct 2000, A.B. Bonds wrote:

> instructions on Jim Hawkins' page, soon Phil Nelson's page). While apart I
> recommend replacing EVERY component, since you don't want to go there again.
> I did a 28 but thought that the mica caps in the oscillator ought to be OK.
> Boy, was I sorry, they drifted horribly. I ended up having to eviscerate
> the RF box twice. Lesson learned.

I have yet to get into my 28A bowels. It is working fine at the moment so I will leave it alone. BUT - I had a batch of brand new .01/400V caps that I got from AES and when I replaced a cap in a SX-100, it shorted within a few minutes of operation.

I guess I would say that when working on a set as difficult as a 28, I would also consider "burning in" new caps before installing them. New parts can be bad too.

"Nostalgia is a thing of the past"
E-mail: broehrig@admin.aurora.edu or k9eui@arrl.net 73 de Bob, K9EUI
CIS: Data / Telecom Aurora University, Aurora, IL
630-844-4898 Fax 630-844-4222
PLEASE PUT ALL REPLIES IN ASCII TEXT ONLY

Message-ID: <39F52E5C.3BB1B875@vifp.monash.edu.au>
Date: Tue, 24 Oct 2000 16:38:20 +1000
From: Morris Odell <morriso@vifp.monash.edu.au>

MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: SX-28 VS. SX-28A (VS. SX-42)
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi all,

Bob Roehrig wrote:

> BUT - I had a batch of brand new .01/400V caps that
> I got from AES and when I replaced a cap in a SX-100, it shorted within a
> few minutes of operation.
>
> I guess I would say that when working on a set as difficult as a 28, I
> would also consider "burning in" new caps before installing them. New
> parts can be bad too.

I've had this happen too, but never with "proper" brand new caps. I certainly had a very nasty experience with a batch of nice looking professional NOS caps I bought very cheaply as a "special" somewhere. After installing one in a particularly inaccessible part of a Racal RA-17 I soon discovered the awful truth. I thought it was a fluke until the same thing happened to a fortunately more accessible one in another piece of gear.

Sometimes stuff is remaindered for a reason.

73 de Morris VK3DOC

Message-ID: <000f01c03d9f\$2f33eb40\$59332fca@davprin>
From: "Dave prin" <davprin@gil.com.au>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Old radio identity?
Date: Tue, 24 Oct 2000 19:45:44 +1000
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

G'day all,

Please have a look at
<http://www.home.gil.com.au/~davprin/misc.html>

Can you identify this old set? The frame appears to be too well made to be an amateur made set.

Sorry about the pic quality.

Cheers

Dave Prince
davprin@gil.com.au
Ipswich, Queensland, Australia

Message-Id: <3.0.1.32.20001024091828.01198f08@vuse.vanderbilt.edu>
Date: Tue, 24 Oct 2000 09:18:28 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: "A. B. Bonds" <ab@vuse.vanderbilt.edu>
Subject: Re: SX-28 VS. SX-28A (VS. SX-42)
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 12:44 PM 10/23/2000 -0500, you wrote:

>On Sun, 22 Oct 2000, A.B. Bonds wrote:

>

>> instructions on Jim Hawkins' page, soon Phil Nelson's page). While apart I
>> recommend replacing EVERY component, since you don't want to go there
again.

>> I did a 28 but thought that the mica caps in the oscillator ought to be OK.

>> Boy, was I sorry, they drifted horribly. I ended up having to eviscerate

>> the RF box twice. Lesson learned.

>

Phil Nelson's page is now up and it is superb, everything you'd want to
know about the RF box.

>I have yet to get into my 28A bowels. It is working fine at the moment so
>I will leave it alone. BUT - I had a batch of brand new .01/400V caps that
>I got from AES and when I replaced a cap in a SX-100, it shorted within a
>few minutes of operation.

>

THAT is scary. I presume these were the little yellow jobbies. This is
the first failure I have heard of on those, but it's bound to happen some
time. It would be good to keep track of such infant deaths. Any more such
reports would convince me to change brands.

A. B. Bonds

From: brian.k.harris@philips.com
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FS: B&W, Heath, HP, misc.
Message-ID: <0056910008200591000002L112*@MHS>
Date: Tue, 24 Oct 2000 11:49:49 -0500

MIME-Version: 1.0

Content-Type: text/plain; charset=iso-8859-1; name="MEMO 10/24/00 11:47:41"

Content-Transfer-Encoding: quoted-printable

Content-Disposition: inline

For Sale:

1) Two B&W Model 600 Grid Dip Meters

a. The version with the dial scale riveted to front panel - other than missing the decal (and some paint around it) that discusses how to adjust the sensitivity when using the unit as an absorption meter, it's fine - ser #120165 - \$25

b. The version with a clear plastic overlay on top of the front panel - other than minor scratches on the wrinkle paint, it's fine - ser #12983 - \$25

Note: Both these units work perfectly and have the correct knobs. These units cover 1.75 Mc to 260 Mc in 5 ranges (1.75-5.2, 5-14, 14-36, 36-95, 95-260). Each unit has a mint coil set with boxes that are not torn up. I will include an extra 14-36 Mc coil with the first unit sold. These meters have more constant current across the tuning range than the Heath GD-1 so using them is easier plus their dials are more accurate. I am selling them only because I acquired a PRM-10.

2) Heath GD-1 Grid Dip Meter - good condition - works - missing VHF/UHF U-shaped coil - coil box has seen better days - \$12

3) Heathkit HW-8 - built by son but never tested before grandson cranked the VFO knob too far, which popped the capacitor's rotor plates out of the shaft - other than that, it's like new - with manual and ultra clean cabinet - \$35

4) Hewlett-Packard 202B Low Frequency Audio Generator - covers 0.5 Hz to 50 KHz - partially restored (by me) but needs a new spring to put proper tension on dial cord (wire) - missing bottom and top/rear covers - \$40=20

5) BC-375 tuning unit storage box - very good shape - \$8=20

6) Sine Wave Inverter - input is 24-32 VDC - output is 115 VAC (50 VA = max) @ 400 Hz - looks/mounts like a transformer and measures 8x4x5 inches - \$15

7) Argee Electronics (Pasadena, CA) Code Practice Monitor/Oscillator - uses Eveready 239 or Burgess XX9 battery - dirty - unknown electrical c=

condition - \$10

8) Thirteen Tube/Crystal Sockets removed from an SX-25 chassis - all have tube type engraved/embossed on their tops - the eleven octals are marked 6H6, 6SK7 (4), 6F6 (2), 6SQ7 (2), 6K8, 6J5 - the four pin is marked 80 and the 5 pin is marked XTAL - \$4

Prices do not include shipping from 75080 (Richardson, TX). I can bring any of these items to the Lake Texoma hamfest on Saturday, October 28.

73, Brian WA5UEK
=20

=

Message-Id: <4.3.2.7.2.20001024142034.02b39a50@sdct-sunsrv1.ncsl.nist.gov>
Date: Tue, 24 Oct 2000 14:23:07 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: Roy Morgan <roy.morgan@nist.gov>
Subject: Bliley 1C: AC/DC
Cc: Old Tube Radios <boatanchors@theporch.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 06:16 PM 10/23/00 -0500, you wrote:

>I have one of these Bliley 1C, nearly the same as the 1A, crystal-controlled
>oscillators. ... this is an AC/DC device.
> Do I always have to run the
>Bliley on an isolation transformer for safety?

Yes. OR: you can install inside two small back to back filament transformers to form an isolation and run the thing with a proper three-line power cord and ONE fuse in the hot lead.

Your would-be widow will thank you.

Be safe. Mess with old radios WELL into your old age.

Roy
-Keep em glowing!
Roy Morgan, K1LK Y since 1959
7130 Panorama Drive
Derwood MD 20855
301-330-8828

roy.morgan@nist.gov

From: thompson@mindspring.com
Message-ID: <000301c03df1\$d616b940\$641756d1@default>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: NC240D request
Date: Tue, 24 Oct 2000 15:34:36 -0400

I found this request on the National reflector and wonder if any of the National experts can answer this?
I looked for Larry Ware's e-mail address but can't find it! Where is Larry?????

----- Fwd

> I recently acquired a 2-40D with both a 6A3 and 0B2 wired in.
> I know that the 0B2 is a voltage regulator and by the purple glow, so must
> be the 6A3. > Anyone in this fine group familiar with this modification
and can lead me to
> finding schematic for it?
>
> Thanks
>
> John Morris
> WB0RLD
> Moe@msn.com
>

----- end

73 Dave K4JRB

Date: Tue, 24 Oct 2000 17:02:40 -0400 (EDT)
From: MODSTEPH@ACS.EKU.EDU
Subject: Anyone parting out an HQ-170 or HQ-180?
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <01JVQ100Z30Y008WYR@ACS.EKU.EDU>
MIME-version: 1.0
Content-type: TEXT/PLAIN; CHARSET=US-ASCII

If so, I am looking for the Noise Limiter control: 500K ohm pot with single-pole DOUBLE-throw switch on its back. Also of course the knob if available - but definitely the control.

Working on an HQ-180 and it is almost there... but for that. Couple good people on the list sent me 500k ohm pots with switches -

but need to have them DOUBLE throw, or figure out some way around the original setup. I do NOT want to drill a hole in the thing just to add a SPDT switch externally!

TIA,

73, Al N5AIT

Message-ID: <000501c03de6\$a95d2480\$4815fea9@b1yhp64>
From: =?iso-8859-1?Q?Andr=E9_Guibert?= <aguibert@sympatico.ca>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Copper Clad Antenna Wire
Date: Tue, 24 Oct 2000 14:16:44 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bonsoir to All
Somebody was selling used copper clad line telephone wire(4 strands), claiming that if it would withstand outdoor climate for years it should be good enough to be used by Radio Ham for antenna wire.
Copper Clad is a steel wire with a copper alloy envelope.
Anybody has tried it?
Andre

Message-ID: <39F60EFE.39A6BC5F@geo-thermal.com>
Date: Tue, 24 Oct 2000 17:36:46 -0500
From: Lenox Carruth <carruth@geo-thermal.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Misc. for Sale or Trade
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Attention boatanchor shoppers: Price reduction before this stuff goes in the trash.

For sale or trade. Prices do not include shipping.

\$20 plus shipping takes it all.except the crystals.

Weston Model 697 VOM "Selective Set Servicer" Works on voltage not tested on ohms. Appears old and in excellent condition. \$10

Crystals. Lots of crystals in FT-241-A holders for BC-684 and BC-604. Some crystals for SCR-522. Trade only for crystals that I need.

Military transformer in original box stk. No. 2Z9632.562. Marked TF1A19. 200 and 600 ohm primaries and 22,000 ohm secondary, 250-2500cps. Sealed and MFP. Free for shipping

Military Dummy Load Electrical DA-69/URM-48, 1000 ohms. \$3.00

Gold plated adapter one female BNC to two male BNC. \$2.00

UHF coax to binding post adapters. \$1.00 each. have two

BNC to binding post adapter. \$2.00

GR shielded adapters twin banana plugs to female BNC. \$2.00 each. Have two

Twin banana plugs. Have twin male banana plugs, twin female banana sockets and provisions for connecting to cable. Have two. Free for shipping

PIPO miniature 16-button solid-state touch tone pad. Crystal time base. Auto keying, etc. \$10.00

Chomerics miniature 12-button touch tone pad only no tone generator. \$2.00

Military Dummy Load DA-35/U 1000 ohm load. \$3.00

Military Adapter Connector UG-514/U. \$3.00

--

Lenox

Lenox Carruth Dallas, TX carruth@geo-thermal.com
Collector of WW-II Communications Equipment and Memorabilia

Wanted: TBX-8 Antenna, Key, Canvas Case, Accessory Box

To: Old Tube Radios <boatanchors@theporch.com>

Cc: k9gaw@juno.com, W9EFL@aol.com, pmonroe@charter.net,
robertrosenthal@RSRVentures.com, bross@interaccess.com
Date: Tue, 24 Oct 2000 17:42:25 -0500
Subject: JOHNSON MATCHBOX FS
Message-ID: <20001024.174227.-319115.4.jackiv@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
From: jackiv@juno.com

I have a clean 275 watt matchbox with manual copy. This is the one with the vswr meter and the in line coupler. There is a scratchy spot on the top, center rear. Otherwise the front panel is vg. When I recieved it it had been modified to a co-ax only output(didn't the lid know that this is the good one?) I opened it up and put it back the way that it should be with the exception of leaving the shorting wire on the relay allowing the thing to be used with a txcvr. Switch sections look excellent, no sign of heating.

will sell for \$150.00 plus ship from 60067 (nw of chicago) Good copy of manual included, what have you to trade???

73s jack

JACK IVERSON ARRL OOTC RCA IEEEELM
1110 N OLD MILL RD
PALATINE IL 60067
jackiv@juno.com

Message-ID: <39F6142E.98EA4B8F@geo-thermal.com>
Date: Tue, 24 Oct 2000 17:58:54 -0500
From: Lenox Carruth <carruth@geo-thermal.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Need C-24/ARC-5 and R-27/ARC-5
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I need a C-24 Local Control and a R-27 to complete a set of ARC-5 receivers that I have operating from 24 Volts, dynamotors whirring and all, in my office.

Any help will be appreciated. Thanks!

--

Lenox

Lenox Carruth Dallas, TX carruth@geo-thermal.com
Collector of WW-II Communications Equipment and Memorabilia

Wanted: TBX-8 Antenna, Key, Canvas Case, Accessory Box

From: n6nae@ix.netcom.com
Date: Tue, 24 Oct 2000 19:08:48 -0400
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Need HP dial/knob
Message-ID: <Springmail.105.972428928.0.19850400@www.springmail.com>

I know this is a long-shot, but. . .

I need a Frequency dial/knob as used on the HP 200A series of audio oscillators. This is the real old, original design, marked from 20 to 200. Not the larger one which was driven by a vernier knob and which had a much longer scale.

I have a 'garage version' 200BR which is in dire need of a front panel restoration.

Thanks,
Richard

To: Old Tube Radios <boatanchors@theporch.com>
Cc: boatanchors@theporch.com
Date: Tue, 24 Oct 2000 19:41:25 -0500
Subject: Re: NC240D request
Message-ID: <20001024.194140.-319115.6.jackiv@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
From: jackiv@juno.com

It sounds as if you have a regulated dc source with a vr tube and a pass tube (6A3). Check the wiring to see if someone has tried to regulate the mixer and oscillator. could be--- old jack

On Tue, 24 Oct 2000 15:34:36 -0400 thompson@mindspring.com writes:
> I found this request on the National reflector and wonder if any of
> the
> National experts can answer this?
> I looked for Larry Ware's e-mail address but can't find it! Where
> is
> Larry?????
>

> ----- Fwd
>
> > I recently acquired a 2-40D with both a 6A3 and 0B2 wired in.
> > I know that the 0B2 is a voltage regulator and by the purple glow,
> so must
> > be the 6A3. > Anyone in this fine group familiar with this
> modification
> and can lead me to
> > finding schematic for it?
> >
> > Thanks
> >
> > John Morris
> > WB0RLD
> > Moe@msn.com
> >
> ----- end
>
> 73 Dave K4JRB
>
>

From: Hank van Cleef <vancleef@adic.com>
Message-Id: <200010250052.SAA08286@catalina.emass.com>
Subject: Re: Bliley 1C: AC/DC
To: Old Tube Radios <boatanchors@theporch.com>
Date: Tue, 24 Oct 2000 18:52:06 -0600 (MDT)
Cc: boatanchors@theporch.com (Old Tube Radios)
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

As Merz Donald S discourses

>
> I have one of these Bliley 1C, nearly the same as the 1A, crystal-controlled
> oscillators. It's the one with the orange face and all the common IF
> frequencies on a switch. Mine works perfectly. But this is an AC/DC device.
> Usually, I am working on a grounded device. Do I always have to run the
> Bliley on an isolation transformer for safety? I don't think I can ground
> the chassis by switching it over to a 3-wire line cord because it has a
> negative floating ground (sez the manual). What say you?
>

Don, I have a 1C that I have rebuilt, but as an AC-DC unit. I also
have, sitting new in the box, a Magnetek dual-primary transformer
115/230 volts to 12.6. My thinking was to mount the transformer on
the unit (very tight fit) and to use one of the primaries as a primary
and the other as a B+ secondary. VA rating of the transformer is

about twice what is needed. I don't have a manual for the thing, just a schematic that I doped out with an ohmmeter. The setup is pretty obvious. As I recall, the chassis was used as a B- ground at several points, with means that a 3-wire setup is not the thing to do. The concept behind the Bliley box is superb, but the execution is a jim-dandy shock hazard, particularly in the modern world where much of our test equipment is hard-grounded with three-wire setups.

Actually, one of my thoughts has been to take a 115/115 volt isolation transformer and to follow it up with a bridge rectifier and use that to drive some AC-DC stuff and see how it plays. It certainly should reduce the hum out of an AA5 substantially. However, the peak voltage out of 115 volts (or 120) is in the 160-170 volt region, and that might end up being a bit high, even with unfiltered ripple. An alternative would be to run it through a choke, first, which would knock the effective output down to around 105-108 volts, but you have to consider that the average AA5 draws around 350 ma. from the mains, which is a bit difficult to choke nicely. Another thought would be to use a 115/100 volt stepdown (for Japanese equipment), which would limit the peaks to around 140 volts, and probably work out to a nice 125 or so RMS with a bridge circuit and no filter. I'd have to measure the B+ on an AA5 to get this homed in.

One thing to remember is that the ripple component of full wave rectifier output is not only 120 Hz. (much more likely to be noticeable in an AA5 speaker), but that as a function of the total voltage, it is only about 1/3rd that of half wave output.

Those are some generalities. So far as the Bliley 1C goes, I think it's pretty clear: either rerig the thing with a transformer inside, or run it off an isolation transformer.

Hank

Message-ID: <024301c03e25\$3fb4cee0\$403dd0d1@oemcomputer>
From: "Doc" <eDoc@netzero.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BA Antenna Questions "Master Mobile Hi-Q"
Date: Tue, 24 Oct 2000 21:45:24 -0400
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I am awaiting the arrival of a Master Mobile Hi-Q HF mobile vertical. It is a contemporary of the SWAN 45 mobile vertical ... couldn't talk him into swapping his Swan! :-(

Anyone remember the Master Mobile Hi-Q ?

Anyone recall any useful information as to installation preferences, mods, maintenance?

I am planning to add some jumpers and a ceramic switch so it may be used multi-band (esp. 75, 40 & 20m) without having to exit the vehicle and toy with jumpers. Any reasons this may compromise the Master Mobile's performance? Suggestions as to the best way to wire the permanent jumpers (#12 copper, RG-58 cable, etc.) ?

- Thanks! & 73, Doc

David M. "Doc" Colburn -- KD4E
ARRL/VEC, WCF Section Emergency Coordinator
ARRL West Central Florida Section
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Message-ID: <014801c03e0a\$e634f800\$7a5f62d8@naxs.com>
From: "Barry L. Ornitz" <ornitz@tricon.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Safety Warning and some personal experiences
Date: Tue, 24 Oct 2000 18:36:47 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="utf-7"
Content-Transfer-Encoding: 7bit

Although I doubt if many of the group noticed, I have been absent from this mailing list for a few months. The reasons were vision related, and while in my case they were not preventable, most eye injuries are the result of accidents which can be prevented.

In early June I developed neuropathy of the fourth cranial nerve that controls movement of the left eye. The cause is related to diabetes, and this problem shows up occasionally with diabetics. Fortunately with most cases, it clears up

by itself within a few months - as it did with me. +AFs-For those interested, there are some interesting electrical analogies for what happened. Contact me directly if you are interested in hearing about these.+AF0- For about a month, I just shut one eye to read my daily dose of Boatanchors.

Unfortunately in early July, I developed shingles (herpes zoster) in the fifth cranial nerve including my right eye. Shingles is a flare-up of the varicella-zoster virus from an old case of chicken pox - in my case over 47 years ago. According to the family doctor and my opthamologist, this is about the worst possible site to be hit. With the aid of some pretty potent analgesics (narcotic), I was able to get through this too.

The bad thing, however, was how this temporary impairment of vision affected my enjoyment of the hobby. I couldn't read the list+ADs- I couldn't read any of my books+ADs- I couldn't work on any of the gear waiting on the bench. Heck, I even missed the Shelby hamfest -for only the third time in 35 years (and one of those was because, years ago, I foolishly got married that weekend - not foolish to get married, mind you, but for ignoring the fact that the hamfest was the same weekend). Things were pretty miserable for a while.

But things gradually got better and I am back now enjoying the list and trying to go through the 700+- messages and digests that backed up. It's good to +ACI-see+ACI- my old friends again.

To get to the Boatanchor relevance, however, allow me to turn this into a safety warning. As I said earlier, most eye injuries are the result of accidents. There are many situations in restoring Boatanchors where eye injuries are possible: cleaning with solvents, soldering, exploding capacitors, sanding and sand blasting, painting, and even imploding tubes and broken glass. In virtually every case, most of these injuries can be prevented with proper safety precautions like goggles or safety glasses with side shields.

So the next time you are tempted to take a shortcut and not use eye protection, remember how miserable I was for a few months without Boatanchors. Now think about losing your vision permanently, something I fortunately did not have to face.

The readers of this group are probably more safety conscious

than the average ham, and I hope it stays this way and that we all promote safety by example. The only thing I have seen lately here that I thought needed to be corrected is some misinformation on PCB's. PCB's really ARE more dangerous and more ubiquitous than most list members think. I was working on a paper on PCB's this spring that was also interrupted. It may take a while to finish, but I have lots of references in my files already. I'll try to post here even if the paper is not published.

73, Barry L. Ornitz WA4VZQ ornitz+AEA-tricon.net

End of BOATANCHORS Digest 3018
